

REMARKS

The Office Action rejected the claims under 35 U.S.C. § 103. Applicants amended claims 1, 8 and 15, and added new claims 23-36. Claims 1-3, 5-10 and 12-36 remain. Applicants request that the Examiner reconsider and withdraw the rejections. A Request for Continued Examination and an Information Disclosure Statement accompany this Amendment as separate papers.

Claim Rejections - 35 U.S.C. § 103

The Office Action rejected claims 1-22¹ as being obvious over United States Patent Number 6,394,793 to Bunge (“Bunge”). Applicants thank the Examiner for providing suggested language to overcome Bunge, and have partially incorporated such language into independent claims 1, 8 and 15. Specifically, claims 1, 8 and 15 now clarify that “impingement cooling is a subset of forced convection cooling that produces significantly higher heat transfer coefficients than the remainder of the forced convection regime.” As stated previously, Bunge does describe a forced convection system, but lacks any discussion that the system achieves impingement cooling. None of the remaining references provide a motivation for such a modification. Applicants request that the Examiner reconsider and withdraw the rejection.

These amendments did not introduce new matter. Support for the added language appears in the disclosure as original filed, for example paragraph 49. In addition, Applicants do not believe these amendments narrow the scope of the claims since the changes merely insert the definition of a term already appearing in the claim (impingement cooling).

¹ Applicants previously cancelled claims 4 and 11, so the rejection should be to claims 1-3, 5-10 and 12-22.

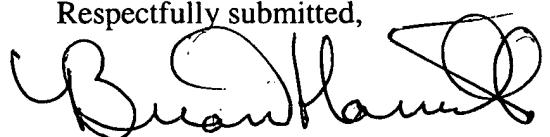
Newly Added Claims

Applicants added new claims 23-36. These claims describe inventions that define over the cited references, and do not introduce new matter. Support for these claims appears in the disclosure as originally filed. For example, support for claims 23, 26, 29 and 33 appears in paragraph 49; support for claims 24 and 27 appears in paragraph 57; support for claims 25 and 28 appears in paragraph 58; support for claim 30 appears in paragraph 45; support for claim 31 appears in claim 1 and paragraph 61; support for claim 32 appears in paragraph 49; and support for claims 34-36 appears in paragraphs 30 and 60.

Conclusion

In light of the foregoing, Applicants submit that the case is now in condition for allowance. Applicants request that the Examiner reconsider and withdraw the rejections. Applicants solicit the allowance of claims 1-3, 5-10 and 12-36 at an early date.

Respectfully submitted,



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